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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/976,632	10/12/2001	Douglas P. Brown	10149	1656
26890	7590	01/02/2004	EXAMINER	
JAMES M. STOVER NCR CORPORATION 1700 SOUTH PATTERSON BLVD, WHQ4 DAYTON, OH 45479			WOO, ISAAC M	
			ART UNIT	PAPER NUMBER
			2172	

DATE MAILED: 01/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/976,632

Applicant(s)

BROWN ET AL.

Examiner

Isaac M Woo

Art Unit

2172

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 6. 6) ☐ Other:

DETAILED ACTION

Claim Objections

1. Claim 2 is objected to because of the following informalities:

Claim 2, line 1, "The method of claim 2" has an incorrect claim dependency.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-11, 16-25, 27 and 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cannon (U.S. Patent No. 6,029,176).

With respect to claims 1 and 17-19, Cannon discloses the method of presenting demographics information in a database system, providing a graphical user interface screen, see (fig. 9, col. 3, lines 62-64, col. 25, lines 53-67 to col. 26, lines 1-14); an item in the graphical user interface screen, see (col. 26, lines 34-52); and in response to

selection of the item, displaying the demographics information in graphical format, see (fig. 9-13, col. 26, lines 34-67 to col. 27, lines 1-14).

Cannon discloses an item (defection icon) in the graphical user interface screen, see (fig.10, col. 26, lines 34-52). Cannon does not explicitly disclose, "receiving selection of an item" in the graphical user interface screen. However, Cannon discloses, "FIG. 10, a user may "click" a mouse on the defection icon and generate the line graph shown in FIG. 11. The icon-driven graphical user interface 125 provides single click access to very sophisticated types of information", see (col. 26, lines 34-51). The step of "user click a mouse on the defection icon" is to receive a selection of item from a user to the system. And the system displaying based on user click. Therefore, it would have been obvious to a person having ordinary skill in the art the time of the invention was made to include "receiving selection of an item" in the graphical user interface screen.

Because when a user wants to see something on computer system, the user clicks an icon on GUI (selecting (an) item(s)), in Graphical User Interface computer environment. Thus, selection of an item provides user's action to execute the computer system's GUI.

With respect to claim 2, Cannon discloses, displaying the demographics information in text format, see (fig. 9-13).

With respect to claim 3, Cannon discloses, displaying the demographics information in a format different from a text format, see (fig. 12 (displaying with pie graph), col. 26, lines 39-51).

With respect to claim 4, Cannon discloses, providing an interface to access the demographics information, see (col. 1, lines 6-13).

With respect to claim 5, Cannon discloses, providing an application programming interface to depict demographics information, see (fig. 9-13).

With respect to claims 6 and 21, Cannon discloses, storing demographics information in a database, see (col. 6, lines 41-64, col. 10, lines 52-67 to col. 11, lines 1-67).

With respect to claim 7, Cannon discloses, storing the demographics information in a query capture database, see (col. 5, lines 61-67 to col. 6, lines 1-59).

With respect to claim 8, Cannon discloses, the database system has plural access modules, and displaying demographics information on a per-access module basis, see (col. 5, lines 61-67 to col. 6, lines 1-59).

With respect to claims 9-11 and 16, Cannon discloses, displaying in at least one of a bar chart format and a line graph format, storage system utilization, statistics information and spool space utilization, see (fig. 9-13, col. 26, lines 15-67 to col. 27, lines 1-14, col. 5, lines 61-67 to col. 6, lines 1-59).

With respect to claim 20, Cannon discloses, the demographics information in a second format for displaying in a text view, see (fig. 9-13, col. 26, lines 15-67 to col. 27, lines 1-14, col. 5, lines 61-67 to col. 6, lines 1-59).

With respect to claims 22-23, Cannon discloses, interface between an application and the database, see (col. 26, lines 15-67 to col. 27, lines 1-14, col. 5, lines 61-67 to col. 6, lines 1-59).

With respect to claim 24, Cannon discloses, interface between an application and the database, see (col. 26, lines 15-67 to col. 27, lines 1-14, col. 5, lines 61-67 to col. 6, lines 1-59).

With respect to claims 25 and 27, Cannon discloses, the demographics information containing statistics information, in at least one of a chart format and a line graph format, see (col. 26, lines 15-67 to col. 27, lines 1-14, col. 5, lines 61-67 to col. 6, lines 1-59).

With respect to claims 32-33, Cannon discloses, first interface to a database system, see (col. 3, lines 17-30); demographics information, see (col. 21, lines 5-67); and user interface, see (col. 3, lines 17-30); module adapted to access the demographics information from the database system (col. 1, lines 5-13) and to display the demographics information in graphical format in the user interface, see (col. 26, lines 15-67 to col. 27, lines 1-14, col. 5, lines 61-67 to col. 6, lines 1-59).

Cannon discloses an item (defection icon) in the demo graphical information, see (fig.10, fig.11, fig. 12, col. 26, lines 34-52). Cannon does not explicitly disclose, "receive a request" for demographics information.

However, Cannon discloses, "FIG. 10, a user may "click" a mouse on the defection icon and generate the line graph shown in FIG. 11. The icon-driven graphical user interface 125 provides single click access to very sophisticated types of information", see (col. 26, lines 34-51). The step of "user click a mouse on the defection icon" is to receive a request for demographical information from a user to the system. And the system displaying based on user click. Therefore, it would have been obvious to a person having ordinary skill in the art the time of the invention was made to include "receive a request" for demographics information.

Because when a user wants to see something on computer system, the user clicks (receive a request) an icon on GUI in Graphical User Interface computer environment. Thus, request of an item provides user's action to execute the computer system's GUI.

3. Claims 12-15, 26 and 28-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Cannon (U.S. Patent No. 6,029,176) in view of Uematsu (U.S. Patent No. 6,606,658).

With respect to claims 12, 26 and 28, Cannon does not explicitly disclose, displaying the storage system utilization associated with each access module. However, Uematsu discloses, displaying the storage system utilization (CPU is storage system) associated with each access module (per each CPU), see (fig. 6-9, col. 6, lines 11-67 to col. 7, lines 1-51). Therefore, it would have been obvious to a person having ordinary skill in the art the time of the invention was made to include displaying the storage system utilization associated with each access module in the system of Cannon. Because monitoring and displaying each storage medium usage status helps a user or a system administrator's efficient resource management.

With respect to claims 13-15 and 29-31, Uematsu discloses, a row count and an average row size of rows a portion of the table stored and distribution of the number of blocks by each of the access module, see (fig. 6-9, col. 6, lines 11-67 to col. 7, lines 1-51).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lowenthal et al (U.S. Patent No. 6,035,306) discloses the system for storage of information is monitored at three levels: database files, file system files, and individual disk drives Parameters indicating the activity and performance level of each of the levels of storage are taken at selected intervals and stored. An analysis tool is provided that allows a DBA to select a time window during which the database performance is be assessed. The analysis tool has a map of the logical and physical arrangement of the database being monitored and allows a DBA to move from level to level of both logical and physical structures involved in storing the data while displaying I/O activity in an easily understood manner. It can be used as a103 reference for limitations for storage monitoring and displaying.


Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac M Woo whose telephone number is (703) 305-0081. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (703) 305-9790. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

IMW
December 23, 2003


SHAHID ALAM
PRIMARY EXAMINER